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Protection of Soybeans
January 1980-November 1984
Citations from AGRICOLA Concerning
Diseases and Other Environmental Considerations

(U.S.) Dept. of Agriculture, Beltsville, MD

Prepared for

Environmental Protection Agency, Washington, DC

Aug 85

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The Protection of Soybeans, January 1980-November 1984

Citations from Agricola Concerning Diseases and Other Environmental Considerations

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Soybeans, planted on more than 68 million acres with cash receipts totaling more than 12 billion dollars is our most important field crop. This bibliography of 2,042 literature citations, consists of American articles on all aspects of protection from diseases, insects, nematodes, fertilizer, pesticides, other chemicals, and other environmental considerations.

Each citations appears under every table-of-contents heading assigned by the cataloger or indexer who entered the item into AGRICOLA, the master data base created by the National Agricultural Library.

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The Protection of Soybeans, January 1980-November 1984

Citations from Agricola Concerning Diseases and Other Environmental Considerations

Compiled by
Charles N. Bebee
National Agricultural Library

Bibliographies and Literature
of Agriculture Number 38

United States Department of Agriculture
National Agricultural Library
Beltsville, Maryland 20705

and

United States Environmental Protection Agency
Office of Pesticide Programs
Washington, D.C. 20460

August 1985

FOREWORD

This is the second volume in a series of commodity-oriented environmental bibliographies resulting from a memorandum of understanding between the United States Department of Agriculture, National Agricultural Library (USDA-NAL), and the Environmental Protection Agency, Office of Pesticide Programs (EPA-OPP).

This close working relationship between the two agencies will produce a series of bibliographies which will be useful to EPA in the regulation of pesticides, as well as to any researcher in the field of plant or commodity protection. The broad scope of information contained in this series will benefit USDA, EPA, and the agricultural community as a whole.

The sources referenced in these bibliographies include the majority of the latest available information from United States publications involving commodity protection throughout the growing and processing stages for each agricultural commodity.

We welcome the opportunity to join this cooperative effort between USDA and EPA in support of the national agricultural community.

Joseph H Howard

JOSEPH H. HOWARD, Director
National Agricultural Library

STEVEN SCHATZOW, Director
Office of Pesticide Programs

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Form NAL-8A (10/84)

INTRODUCTION

The citations in this bibliography are selected from works by U.S. authors on all aspects of the protection of soybeans from diseases, insects, nematodes, chemicals, or other environmental conditions which affect the yield and quality of this commodity. All citations are derived from AGRICOLA (AGRICultural OnLine Access), the master bibliographic database compiled by the National Agricultural Library for its 1.8-million-volume collection.

This is the second bibliography in a series jointly sponsored by the National Agricultural Library, United States Department of Agriculture (USDA-NAL), and the Office of Pesticides Programs, Environmental Protection Agency (EPA-OPP). Additional volumes planned in the immediate future will concern protection of cotton, wheat, grain sorghum, rice, peanuts, and tobacco.

Entries in the bibliography are subdivided into a series of subject headings used in the table of contents of the Bibliography of Agriculture and in the National Agricultural Library Catalog. Each citation appears under the subject heading assigned to the particular item. A complete author index is also included in the publication.

The Office of Pesticide Programs, EPA, has furnished technical assistance to the compiler through members of a commodity-oriented environmental data team which included:

Charles D. Reese
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Bernard Schneider, PhD.
Richard Petrie

Any comments or questions may be forwarded to the compiler:

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RESEARCH

0001

Detection of soybean mosaic virus in seed by solid-phase radioimmunoassay.
Bryant, G.R. Hill, J.H.; Bailey, T.B.; Tachibana, H.; Durand, D.P.; Benner, H.I. St. Paul, American Phytopathological Society. Plant disease. Aug 1982. v. 66 (8). p. 693-695. 15 ref. (NAL Call No.: 1.9 P69P).

METEOROLOGY AND CLIMATOLOGY

0002

Analysis of yield decline in soybeans planted at nonoptimal planting dates, Baton Rouge, 1981 Planting Date Study.
Board, J.E. Baton Rouge, La., The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 107-111. (NAL Call No.: 100 L936).

0003

Comparison of meteorological and standardized timings of fungicide applications for soybean disease control (Glycine max, system based on rainfall frequency, Alabama).
Backman, P.A. Crawford, M.A.; Hammond, J.M. St. Paul, American Phytopathological Society. Plant disease. Jan 1984. v. 68 (1). p. 44-46. Includes references. (NAL Call No.: 1.9 P69P).

0004

Drought and insects: bad news for beans (Soybeans).
McPherson, R.M. Allen, W.A. San Francisco, California Farmer Publishing Co. Agrichemical age. Apr 1981. v. 25 (4). p. 16, 18, 42. ill. (NAL Call No.: 381 AG85).

0005

Effect of field weathering on the viability and vigor of soybean seed.
TeKrony, D.M. Egli, D.B.; Phillips, A.D. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 749-753. ill. Bibliography p. 752-753. (NAL Call No.: 4 AM34P).

0006

The effects of temperature on longevity and vitality of soybean seeds (Storage).
Bailey, Z.E. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 109-111. ill. (NAL Call No.: aSB205.S7S6).

0007

Environmental sensitivity of acetylene reduction activity in prediction of N (nitrogen) fixation in soybeans (relationship between effects of water stress and temperature).
Raper, C.D. Jr. CR. Patterson, R.P. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 717-719. ill. 13 ref. (NAL Call No.: 4 AM34P).

0008

Influence of water stress on the diurnal exchange of mass and energy between the atmosphere and a soybean canopy (Glycine max, Nebraska).
Baldocchi, D.D.AGJOA. Verma, S.B.; Rosenberg, N.J.; Blad, B.L.; Garay, A. Madison : American Society of Agronomy. Agronomy journal. May/June 1983. v. 75 (3). p. 543-548. ill. Includes references. (NAL Call No.: 4 AM34P).

0009

Relationship between weather and soybean seed infection by Phomopsis sp. (Glycine max).
TeKrony, D.M.PHYTA. Egli, D.B.; Stuckey, R.E.; Balles, J. St. Paul : American Phytopathological Society. Phytopathology. June 1983. v. 73 (6). p. 914-918. Includes references. (NAL Call No.: 464.8 P56).

HISTORY

0010

The role of the Northern Regional Research Center in the development of quality control procedures for fats and oils (Soybeans, flax, history, U.S. Department of Agriculture, Agricultural Research Service, Illinois).
List, G.R. Champaign, Ill. : The Society. Journal of the American Oil Chemists' Society. June 1984. v. 61 (6). p. 1017-1022. Includes references. (NAL Call No.: 307.8 J82).

0011

Use of imported natural enemies against insect pests of soybean (Biological control, prospects for future introductions, USA, includes history of importations).
Jones, W.A. Jr.SCSBA. Young, S.Y.; Shepard, M.; Whitcomb, W.H. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 63-77. Includes references. (NAL Call No.: 100 G29SO).

U.S. EXTENSION SERVICES

0012

Nematode advirosy programs--status and prospects (Wheat, soybeans, economic crops, United States).
Barker, K.R. Imbriani, J.L. St. Paul, Minn. : American Phytopathological Society. Plant disease. Aug 1984. v. 68 (8). p. 735-741. ill. Includes 18 references. (NAL Call No.: 1.9 P69P).

0013

Selected factors in the adoption of a recommended farm practice / by Billy A. Dick.
Dick, Billy A. 1968. Extension Repository Collection -Typescript -"A project in agricultural extension education submitted to the College of Agriculture, University of Georgia, in partial fulfillment of the requirements for course credit in Agricultural Extension 921.". ix, 35 leaves ; 29 cm. Bibliography: leaves (30)-31. (NAL Call No.: S544.3.G4D5).

LEGISLATION

0014

The farm pesticide industry.
Eichers, T.R. Washington, D.C., The Department.
Extract: The primary objective of this study is to analyze the nature of the pesticide industry by smaller component markets (submarkets) and evaluate its structure, conduct, and performance. The study also examines some of the implications of pesticide regulations on the pesticide industry and on farm pesticide use. Agricultural economic report - United States Dept. of Agriculture. Sept 1980. Sept 1980. (461). 24 p. 39 ref. (NAL Call No.: A281.9 AG8A).

ECONOMICS

0015

The contribution of herbicides and other technologies to soybean production in the Corn Belt Region, 1965 to 1979.
Schroder, D. Headley, J.C.; Finley, R.M. Columbia, Missouri, The Department. Extract: This report attempts to identify the contributions of technology and weather to soybean yield variation for the period 1965 to 1979 in the Corn Belt Region. Technology variables included were genetic improvement, herbicides, and row-width. A pooled cross-sectional time-series data base was used to estimate regression parameters for herbicides and other variables. A marginal private benefit/cost return of $2.3 per dollar of herbicide cost was estimated for additional land treated with herbicides. Paper - University of Missouri-Columbia, Dept. of Agricultural Economics. (1981?). (1981?). (1981-33). 25 p. 35 ref. (NAL Call No.: 917437(AGE)).

0016

Economic analysis of alternative controls of the soybean cyst nematode in Southern Illinois.
Reis, R.P. Noel, G.R.; Swanson, E.R. Urbana, Ill., The Department. Extract: In this report we illustrate the economic logic of analyzing various control methods for soybean cyst nematode. They are: soybean variety, crop sequence, use of a nematicide, and fertilization. Unfortunately there was no single experimental data base which had considered all of these control methods and the potential interactions among them. Consequently it was necessary to synthesize from various sources a set of soybean yield data reflecting the yield consequences of the various control measures. Illinois agricultural economics staff paper, series E, agricultural economics - Dept. of Agricultural Economics, University of Illinois. Dec 1981. Dec 1981. (81 E-203). 17 p. 12 ref. (NAL Call No.: 916937(AGE)).

0017

Economic analysis of the impact of registration cancellation of 1,2-dibromo-3-chloropropane (DBCP).
Schmidt, K.M. Swanson, E.R. Urbana, Ill., The Department. Extract: Three methods were used to evaluate the impact of cancellation of the registration of DBCP as a nematicide on the 1,830,000 acres of soybeans treated with DBCP in 1977. The first two methods specified use patterns for substitutes and also made specific assumptions about the relative efficacy of the nematicides. Economic impact estimates were made without ethylene dibromide (EDB) as an alternative and with EDB as an alternative. Illinois agricultural economics staff paper, series E, agricultural economics - Dept. of Agricultural Economics, University of Illinois. Apr 1981. Apr 1981. (81 E-161). 51 p. 51 ref. (NAL Call No.: 916937(AGE)).

0018

Economic benefits of breeding host plant resistance: a simulation approach.
Zavaleta, L.R. Kogan, M. Fargo : North Dakota State University. Extract: Economic benefits to be obtained from breeding resistance in soybean host plants are explored and measured for two modalities of antibiosis. Varieties with lower levels of mortality were found to be most useful in the presence of low insect populations. For medium populations, effective control was obtained only for varieties with high mortality levels. The effects of delays in the rate of development of the insects were comparable to some of the effects obtained with induced mortality. North Central journal of agricultural economics. Jan 1984. v. 6 (1). p. 17-27. Includes 17 references. (NAL Call No.: HD1773.A3N6).

0019

The farm pesticide industry.
Eichers, T.R. Washington, D.C., The Department. Extract: The primary objective of this study is to analyze the nature of the pesticide industry by smaller component markets (submarkets) and evaluate its structure, conduct, and performance. The study also examines some of the implications of pesticide regulations on the pesticide industry and on farm pesticide use. Agricultural economic report - United States Dept. of Agriculture. Sept 1980. Sept 1980. (461). 24 p. 39 ref. (NAL Call No.: A281.9 AG8A).

0020

Preliminary benefit analysis of captan for seed treatment of corn, small grains and soybeans.
Grube, A.H. Urbana, Ill. : The Department. Extract: This report is a preliminary benefit analysis of the fungicide captan used as a seed treatment on corn, soybeans, sorghum, wheat, barley, oats and rye. This analysis is intended as input to the risk/benefit decision by the Administrator of EPA as to the continued registration of captan under the Federal Insecticide, Fungicide, and Rodenticide Act. Illinois agricultural economics staff paper, series E agricultural economics - University of Illinois, Department of Agricultural Economics. Oct 1982. Oct 1982. (E-238). 201 p. Includes 325 references. (NAL Call No.: 916937(AGE)).

0021

Preliminary benefit analysis of PCNB for seed treatment on small grains and soybeans (pentachloronitrobenzene).
Grube, A.H. Urbana, Ill., The Department. Extract: This report is an economic impact analysis of the use of PCNB (pentachloronitrobenzene) as a seed treatment for small grains and soybeans. The information presented in this report corresponds to a specification of requirements for an economic

impact analysis that appeared in the Federal Register, Vol. 41, No. 102 (Appendix IB) on May 25, 1976. The Notice requires that the preliminary analysis identify the major and minor uses of the pesticide, estimate the quantities utilized, identify the registered alternatives and their availability, determine the change in pesticide costs associated with the use of alternatives, and evaluate the regulatory impact upon crop production and retail prices. This analysis focuses on the uses of PCNB as a seed treatment on soybeans, wheat, barley, oats and sorghum in terms of active ingredients applied per year. Illinois agricultural economics staff paper, series E, agricultural economics - Dept. of Agricultural Economics, University of Illinois. Apr 1981. Apr 1981. (81 E-160). 109 p. Bibliography p. 92-105. (NAL Call No.: 916937(AGE)).

0022

Severity of infestation of the soybean cyst nematode (Heterodera glycines Ichinohe) in Louisiana (Glycine max, yield losses, economic impact).
Bachireddy, V.R. Baton Rouge : The University. Research bulletin - Southern University. July 25, 1982. v. 4 (1). p. 30-42. maps. Includes references. (NAL Call No.: S539.5.R42).

0023

Soybean herbicides: recommendations, use surveys and treatment costs.
Park, J.K. Nafziger, E.D.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. July 1981. Predominantly tables. July 1981. (81 E-181). 93 p. 43 ref. (NAL Call No.: 916937(AGE)).

0024

Soybean insecticides: recommendations, use surveys and treatment costs.
Park, J.K. Nafziger, E.D.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. July 1981. July 1981. (81 E-182). 48 p. 51 ref. (NAL Call No.: 916937(AGE)).

0025

Soybean nematicides/fungicides: recommendations, use surveys and treatment costs.
Park, J.K. Nafziger, E.D.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. July 1981. July 1981. (81 E-183). 35 p. 53 ref. (NAL Call No.: 916937(AGE)).

ECONOMICS OF AGRIC. PRODUCTION

0026

The contribution of herbicides and other technologies to soybean production in the Corn Belt Region, 1965 to 1979.
Schroder, D. Headley, J.C.; Finley, R.M. Columbia, Missouri, The Department. Extract: This report attempts to identify the contributions of technology and weather to soybean yield variation for the period 1965 to 1979 in the Corn Belt Region. Technology variables included were genetic improvement, herbicides, and row-width. A pooled cross-sectional time-series data base was used to estimate regression parameters for herbicides and other variables. A marginal private benefit/cost return of $2.3 per dollar of herbicide cost was estimated for additional land treated with herbicides. Paper - University of Missouri-Columbia, Dept. of Agricultural Economics. (1981?). (1981?). (1981-33). 25 p. 35 ref. (NAL Call No.: 917437(AGE)).

0027

Modeling soybean growth for crop management (Irrigation and pest management decisions, SOYGRO).
Wilkerson, G.G.TAAEA. Jones, J.W.; Boote, K.J.; Ingram, K.T.; Mishoe, J.W. St. Joseph : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Jan/Feb 1983. v. 26 (1). p. 63-73. ill. Includes references. (NAL Call No.: 290.9 AM32T).

FARM ORGANIZATION AND MANAGEMENT

0028

Application of a simulative approach to evaluating alternative methods for the control of agricultural pests.
Reichelderfer, K.H. Bender, F.E. Lexington, Ky., American Agricultural Economics Association. Extract: A microanalytic simulation model of the interrelationships among Mexican bean beetle pest populations, populations of wasps that are parasites of the pest, chemical control inputs, and soybean yield is presented. Points from output response surfaces obtained through simulations of alternative biological and chemical pest control strategies are utilized in conjunction with cost data to construct benefit-cost ratios for each intraseasonal control option studied. Comparison of ratios indicates that biological of the pest is, by benefit-cost criteria and from both private and social perspectives, a competitive alternative to chemical control. American journal of agricultural economics. May 1979. v. 61 (2). p. 258-267. 19 ref. (NAL Call No.: 280.8 J822).

0029

Cost effectiveness of postemergence glyphosate and sethoxydim to johnsongrass in soybeans and cotton (Sorghum halepense, herbicides).
Derting, C.W.SWSPB. Sandberg, C.L.; Whatley, T.L.; Wu, C.H. Champaign : The Society. Proceedings - Southern Weed Science Society. 1983. 1983. (36th). p. 21-25. Includes references. (NAL Call No.: 79.9 S08).

0030

Economic benefits from the use of nonchemical means of pest management: a simulation approach.
Zavaleta, L.R. Kogan, M. Urbana, Ill. : The Department. Extract: The scope of this paper is to analyze the potential economic benefits that can be derived from the development and use of nonchemical methods of control. Its focus will be placed in the soybean crop and its interaction with an insect pest, the bean leaf beetle, Cerotoma trifurcata (Coleoptera: Chrysomelidae). Illinois agricultural economics staff paper, series E agricultural economics - University of Illinois, Department of Agricultural Economics. Sept 1982. Sept 1982. (E-233). 17 p. Includes 21 references. (NAL Call No.: 916937(AGE)).

0031

An economic engineering study of commercial grain storage in South Carolina (Corn, wheat, soybeans, costs and returns).
Shedd, D.T.SCAEA. Miller, S.E. Clemson : The Station. Bulletin - South Carolina Agricultural Experiment Station. July 1983. July 1983. (649). 18 p. Includes references. (NAL Call No.: 100 S08 (1)).

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An economic evaluation of weed control methods used in combination with crop rotation: a stochastic dominance approach.
Zacharias, T.P. Grube, A.H. Fargo : North Dakota State University. Extract: Experimental results from a 10-year herbicide use and crop rotation study provided the data for an analysis of weed control cropping systems. Stochastic dominance was used to rank the various systems. Results indicate that regardless of weed control method a rotation of two years corn and one year soybeans was the most preferred. Systems which substituted cultivation for herbicide use were least preferred. Successively altering herbicides on an annual basis as compared to applying a single major herbicide was found to increase both net returns and risk and would be preferred only by growers who were mildly risk preferring. North Central journal of agricultural economics. Jan 1984. v. 6 (1). p. 113-120. Includes 9 references. (NAL Call No.: HD1773.A3N6).

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Economic feasibility of a biological control technology using a parasitic wasp, pediobius foveolatus, to manage Mexican bean beetle on soybeans.
Reichelderfer, K.H. Washington, D.C., The Service. Agricultural economic report - United States Dept. of Agriculture, Economics, Statistics, and Cooperatives Service. Aug 1979. Aug 1979. (430). 20 p. 9 ref. (NAL Call No.: A281.9 AG8A).

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Economic impact of registration of ethylene dibromide (EDB) for use on soybeans.
Schmidt, K.M. Swanson, E.R. Urbana, Ill., The Department. Extract: Estimates of the economic impact of federal registration of EDB for use as a nematicide on soybeans were developed for two scenarios. Scenario I assumes that EDB is limited to soybean acreage presently treated with other fumigant nematicides. This limit was removed in Scenario II to allow EDB to be substituted for both fumigants and systemic nematicides. The total welfare impact in terms of changes in producers' rents plus consumers' surplus was estimated with a simulation model (AGSIM). These impacts were measured by the present value of an infinite series of future changes resulting from the registration of EDB. Estimated present value of the total welfare gains from the Section 24(c) exemptions is about 700 million dollars with approximately an additional one percent gain from a nation-wide registration. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. Apr 1981. Apr 1981. (82 E-218). 87 p. Bibliography p. 69-87. (NAL Call No.: 916937(AGE)).

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Economic losses due to weeds in soybeans in the Northeastern United States in 1977.
Parochetti, J.V. Beltsville, Md. Proceedings of the ... annual meetingNortheastern Weed Science Society. 1979. v. 33. p. 44-47. ill. (NAL Call No.: 79.9 N814).

0036

An economic threshold model for weeds in soybeans (Glycine max) (Herbicide application).
Marra, M.C.WEESA. Carlson, G.A. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 604-609. ill. Includes references. (NAL Call No.: 79.8 W41).

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Farm efficiency and insect infestation forecasts: the case of soybeans in Illinois.
Moffitt, L.J. Farnsworth, R.L.; Zavaleta, L.R.; Kogan, M. Washington, D.C. : The Service. Extract: A preposterior decision model and a scouting model are used to estimate the economic benefits of an area-wide soybean insect prediction system in Illinois. Results suggest forecast reliabilities of the insect prediction system must exceed 90 percent accuracy before grower profits increase and acres scouted by consultants decrease. Insecticide use, however, can increase or decrease over a range of forecast reliabilities because of the shift from insect consultants to an area-wide public supported insect prediction system. If risk averse behavior is assumed, growers will likely apply more insecticides and hence reduce forecast prediction benefits. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Oct 1982. Available from NTIS, order no. PB83-128728. Oct 1982. (AGES821013). 31 p. Includes 15 references. (NAL Call No.: 916762(AGE)).

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Impact of reduction in use of dibromochloropropane (DBCP) on 1979 soybean yields.
Park, J. Schmidt, K.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. Mar 1981. Mar 1981. (81 E-158). 25 p. (NAL Call No.: 916937(AGE)).

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Impacts of pesticide withdrawal on a typical Indiana farm: an economic analysis.
Cashman, C.M. Martin, M.A.; McCarl, B.A. West Lafayette, The Station. Extract: This bulletin analyzes the short-run, farm-level economic impacts of possible Environmental Protection Agency bans on the use of selected corn and soybean pesticides commonly used in Indiana and elsewhere in the Corn Belt. Station bulletin - Dept. of Agricultural Economics, Agricultural Experiment Station, Purdue University. Sept 1980. Sept 1980. (291). 119 p. 19 ref. (NAL Call No.: HD1775.I6I5).

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Income and risk associated with various pest management levels, tillage systems, and crop rotations: an analysis of experimental data.
Zavaleta, L.R. Eleveld, B.; Kogan, M.; Wax, L.; Kuhlman, D.; Lim, S.M. Urbana, Ill. : The Department. Extract: Budgets for producing and protecting corn and soybean crops were generated for three cropping systems using three levels of pest management and two tillage practices. The corn-soybean rotation produced higher yields and higher net returns than either the continuous corn or soybean cropping system, and it generally had the lowest risk for any of the tillage systems at each management level. Neither conventional nor reduced tillage appeared to dominate; neither did high, medium, or low chemical input dominate. AERR - University of Illinois, Department of Agricultural Economics. Apr 1984. Apr 1984. (191). 19 p. Includes 10 references. (NAL Call No.: 281.9 IL62).

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Indiana farm-level impacts of possible Environmental Protection Agency bans on selected soybean insecticides.
Cashman, C.M. Martin, M.A.; McCarl, B.A. Lexington, Ky., Southern Agricultural Economics Assoc. Extract: The primary purpose of our study was to determine the economic impacts of a possible ban by the Environmental Protection Agency on selected soybean insecticides used by some farmers in Indiana who face periodic soybean yield losses due to insect damage. A 600-acre Indiana corn-soybean farm was analyzed by means of a linear programming model. The economic impacts of possible bans on soybean insecticides were measured in terms of changes in per-acre yields, production costs, farm income, per-acre profits, machinery and labor use, and timeliness of field operations. Yield and related information on alternative soybean insecticides was derived from test plot data. Southern journal of agricultural economics. Dec 1980. v. 12 (2). p. 147-152. 8 ref. (NAL Call No.: HD101.S6).

0042

Pest management in experimental soybean cropping systems: a preliminary economic and risk analysis.
Zavaleta, L.R. Eleveld, B.; Starr, V.B.; Kogan, M.; Wax, L.; Helm, C.; Lim, S.M.; Kuhlman, D. Urbana, Ill. : The Department. Extract: Crop production-protection budgets for soybean were generated for three levels of pest management

and two tillage practices. For the data analyzed, results indicated that high levels of pest management always resulted in a less risky alternative. Conversely, reduced tillage practices tended to increase the variability in yields and returns. Illinois agricultural economics staff paper, series E agricultural economics - University of Illinois, Department of Agricultural Economics. Apr 1983. Apr 1983. (E-253). 26 p. Includes 5 references. (NAL Call No.: 916937(AGE)).

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Socio-economic factors relating to the IFA (Imported Fire Ant) and its management (Solenopsis, pests of livestock, fruits, vegetables, hay, soybeans, agricultural losses).
Headley, J.C. Aspelin, A.; Adams, C.T.; Brooks, T.; Brown, R.E. (Washington, D.C.?) : U.S. Dept. of Agriculture, APHIS, 1982. Proceedings of the Symposium on the Imported Fire Ant, June 7-10, 1982, Atlanta American Hotel, Atlanta, Georgia / editor S.L. Battenfield. p. 41-50.5. Includes references. (NAL Call No.: SB945.F535S9 1982).

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The value of plant resistance to soybean cyst nematodes; a case study of Forrest soybeans.
Bradley, E.B. Duffy, M. Washington, D.C. : The Service. Extract: The use of pest resistant varieties is an important method of preventing crop losses. The past performance of the Forrest soybean variety that is resistant to the soybean cyst nematode is studied. Results indicate that yield loss prevented by use of the Forrest variety accounted for approximately $401 million (constant 1980 dollars) compared to about a $1 million cost of developing the variety. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Oct 1982. Available from NTIS, order no. PB83-149849. Oct 1982. (AGES820929). 42 p. Includes 18 references. (NAL Call No.: 916762(AGE)).

0045

The economic position of the United States and Louisiana in the world market for soybeans and the future outlook.
Varela, J. Corty, F. Baton Rouge, La., The Station. Extract: The outlook for soybean exports depends upon a complexity of factors affecting the supply-demand relationships in the world market. On the supply side, one must consider land areas available for production in the various soybean producing countries as well as agricultural policies with associated incentives, subsidies, and controls. On the demand side, one considers competitive products and their relative prices in the world market, also the purchasing power of consumers in the importing nations, size of the consuming sectors, including numbers of animal units, and foreign currency exchange relationships between importing and exporting nations. This publication evaluates the various factors impacting upon the soybean export market and makes projections to the year 1985. D.A.E. research report - Dept. of Agricultural Economics and Agribusiness, Louisiana Agricultural Experiment Station. Jan 1981. Jan 1981. (577). 70 p. Includes ref. (NAL Call No.: 100 L935).

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FEEDSIM description and computer program documentation.
Holland, F.D. Meekhof, R.L. West Lafayette, The Station. Extract: FEEDSIM.MOD14 is a stochastic simulation model of the corn-soybean market specifically designed to analyze agricultural commodity program alternatives. It incorporates estimated annual production and demand relationships for corn and soybeans, and current price and income support, reserve, and production control programs for these crops. Station bulletin - Dept. of Agricultural Economics, Agricultural Experiment Station, Purdue University. Mar 1979. Mar 1979. (221). 89 p. (NAL Call No.: HD1775.I6I5).

GRADING, STANDARDS, LABELLING

0047

Dissipation of 14C (carbon isotope) N-nitroso-di-N-propylamine (herbicide) from field soil and residue determinations in field-grown soybeans.
Berard, D.F. Rainey, D.P. New York, Springer. Bulletin of environmental contamination and toxicology. Sept 1979. v. 23 (1/2). p. 141-144. ill. 4 ref. (NAL Call No.: RA1270.P35A1).

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Distribution of chlorinated pesticides in soybeans, soybean oil, and its by-products during processing (Effectiveness of processing steps on the removal of residues).
Chaudry, M.M. Nelson, A.I. Champaign, Ill. JournalAmerican Oil Chemists' Society. Dec 1978. v. 55 (12). p. 851-853. ill. 12 ref. (NAL Call No.: 307.8 J82).

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The value of plant resistance to soybean cyst nematodes; a case study of Forrest soybeans. Bradley, E.B. Duffy, M. Washington, D.C. : The Service. Extract: The use of pest resistant varieties is an important method of preventing crop losses. The past performance of the Forrest soybean variety that is resistant to the soybean cyst nematode is studied. Results indicate that yield loss prevented by use of the Forrest variety accounted for approximately $401 million (constant 1980 dollars) compared to about a $1 million cost of developing the variety. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Oct 1982. Available from NTIS, order no. PB83-149849. Oct 1982. (AGES820929). 42 p. Includes 18 references. (NAL Call No.: 916762(AGE)).

PLANT PRODUCTION - GENERAL

0050

Annual progress report - 1980 : Northern Research Center, Clarion- Webster Research Center / Iowa State University of Science and Technology.
1981. This publication contains researched information on planting dates verses plant population, breeding, cold tolerance and Zn, S, K fertilization for corn. Soybean information on brown stem rot and bacterial tan spot is provided. Additional topics include herbicide evaluation, small grain tests, and vegetable garden demonstrations. Document available from: Iowa State Univ., Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 24 p. : ill. (NAL Call No.: Not available at NAL.).(NAL Call No.: DRC 80-14,22).

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Centennial, a new soybean variety with nematode resistance (Yields).
Dunphy, E.J. Brim, C.A. Raleigh, N.C., The Service. AG.North Carolina State University. Agricultural Extension Service. July 1979. July 1979. (174). 4 p. ill. (NAL Call No.: S544.3.N6N62).

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Crop production - soybean project, leader's guide.
Benson, Garren. 1974. Detailed plans for three meetings to help leaders help 4-H'ers to build project-related skills and knowledge. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Decision making. 7 p. : ill. (NAL Call No.: S533.F66I8).(NAL Call No.: 4H-381-E).

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Herbicide to aid soybean (and sunflower) dry down (Paraquat, chemical harvest aids).
San Francisco, California Farmer. Agrichemical age. Sept/Oct 1979. v. 23 (8). p. 32-33, 49. ill. (NAL Call No.: 381 AG85).

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Seedbed tillage and herbicide influence on soybean (Glycine max) weed control and yield.
Kapusta, G. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 520-526. ill. 10 ref. (NAL Call No.: 79.8 W41).

0055

Soybean desiccation by paraquat, glyphosate, and ametryn (Herbicides) to accelerate harvest.
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Soybean desiccation with paraquat, glyphosate, and ametryn (to hasten soybean maturity to allow early seed harvest).
Stoller, E.W. Whigham, D.K. Champaign, Ill., The Conference. Proceedings ... annual meeting.North Central Weed Control Conference. 1978. v. 33. p. 68-69. (NAL Call No.: 79.9 N81).

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Soybean handbook (Includes culture, pests and diseases, processing, cost and return planning).
Manhattan, Kan., The Service. C.Kansas State University. Cooperative Extension Service. May 1978. May 1978. (449). 24 p. ill. (NAL Call No.: 275.29 K13EX).

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The Soybean project.
Swearingen, Marvin. Hankins, B. J. June 1978. Manual covers Divisions I-IV and Advanced and gives sixteen activities such as seed germination, conducting a herbicide survey, determining harvest losses, and cooking with soybeans. 39 p. : ill. (NAL Call No.: S533.F66I6).(NAL Call No.: 4-H 209).

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Soybean response to selected rice herbicides (Leaf injury, yield reduction).
Eastin, E.F. Madison, Crop Science Society of America. Crop science. Nov/Dec 1978. v. 18 (6). p. 967-968. ill. 3 ref. (NAL Call No.: 64.8 C883).

0060

Soybean-wheat cropping systems : evaluation of planting methods, varieties, row spacings, and weed control / Charles R. Graves ... (et al.).
Graves, Charles R. Knoxville University of Tennessee, Agricultural Experiment Station 1980. Cover title. 42 p. : ill. ; 23 cm. -. (NAL Call No.: 100 T25S (1) (no.) 597).

0061

Soybeans (Glycine max) as a rescue crop following cyanazine and procyazine application. Brewer, P.E. Slife, F.W. Champaign, Ill., Weed Science Society of America. Weed science. May 1979. v. 27 (3). p. 263-266. ill. 11 ref. (NAL Call No.: 79.8 W41).

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Fungicides for control of foliar, pod, and stem diseases of soybeans / H. J. Walters.
Walters, H. J. Fayetteville Agricultural Experiment Station, University of Arkansas 1980. Issued Feb. 1980. 31 p. : ill., map. -. Bibliography: p. 15. (NAL Call No.: 100 Ar42R no.250).

0084

Germination techniques and metribuzin bioassay for large-seeded crops (Soybean, corn, cowpeas, herbicide).
Singh, M.PFSHA. Phatak, S.C.; Glaze, N.C. Lake Alfred : The Society. Proceedings of the ... annual meeting - Florida State Horticultural Society. 1982. v. 95. p. 336-339. ill. Includes references. (NAL Call No.: 81 F66).

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Soybeans.
Helsel, Zane R. Document available from: Michigan State University, Bulletin Office, P.O.Box 231, East Lansing, Michigan 48824 1981. Discusses soil and climatic requirements; variety; seed selection; land preparation; fertilizer needs; planting practices; weed, insect, nematode, and disease control; harvesting; and storage. 1 sheet : ill. (NAL Call No.: Document available from source.).(NAL Call No.: EB E-1528).

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Weed pest management in soybean presented by Virginia Tech Extension ; (author, James R. Martin ; editor, S.J. Fleischer).
Martin, James R. Fleischer, S. J. (Blacksburg, Va.) Virginia Polytechnic Institute and State University (1981?). Pesticide Applicator Training Collection. 66 slides : col. + 1 sound cassette (13:30 mins.) + 1 script. (NAL Call No.: Slide no.26).

PLANT PRODUCTION – FIELD CROPS

0067

Agronomic performance of soybeans with differing levels of iron deficiency chlorosis on calcareous soil (Nutritional disorders).
Froehlich, D.M. Fehr, W.R. Madison, Wis., Crop Science Society of America. Crop science. May/June 1981. v. 21 (3). p. 438-441. 8 ref. (NAL Call No.: 64.8 C883).

0068

Analysis of yield decline in soybeans planted at nonoptimal planting dates, Baton Rouge, 1981 Planting Date Study.
Board, J.E. Baton Rouge, La., The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 107-111. (NAL Call No.: 100 L936).

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Annual progress report - 1980 : Northern Research Center, Clarion- Webster Research Center / Iowa State University of Science and Technology.
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Balloonvine : biology and control in soybeans / (Eddie R. Jolley ... et.).
Jolley, Eddie R. (Auburn) Alabama Agricultural Experiment Station, Auburn University 1983. Cover title -"March 1983.". 35 p. : col. ill. ; 23 cm. -. (NAL Call No.: 100 AL1S (1) no.547).

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Carabid beetles in soybean agroecosystems (Harpalus pensylvanicus).
House, G.J. All, J.N. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1981. v. 10 (2). p. 194-196. ill. 11 ref. (NAL Call No.: QL461.E532).

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Competition of jimsonweed with soybean (Datura stramonium, Glycine max, weeds, control, herbicide).
Kirkpatrick, B.L.AGJDA. Wax, L.M.; Stoller, E.W. Madison : American Society of Agronomy. Agronomy journal. Sept/Oct 1983. v. 75 (5). p. 833-836. ill. Includes references. (NAL Call No.: 4 AM34P).

0074

Competition of three malvaceous weed species in soybeans, (Glycine max (L.) Merr.) / by Benny Joe Eaton.
Eaton, Benny Joe, 1943. 1971. Thesis (Ph.D.)--Kansas State University, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. v, 68 leaves ; 21 cm. Bibliography: leaves 54-56. (NAL Call No.: DISS 71-26,607).

0075

Control of volunteer corn in soybeans, 1979 (Illinois).
McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 61-62. (NAL Call No.: S1.D5).

0076

Cotton-soybean rotation for reniform nematode control (Rotylenchulus reniformis, resistant cultivars, cultivars, Louisiana).
Williams, C.LAXBA. Gilman, D.F.; Jones, J.E.; Birchfield, W. Baton Rouge : The Station. Bulletin - Louisiana Agricultural Experiment Station. Jan 1983. Jan 1983. (741). 22 p. Includes references. (NAL Call No.: 100 L93 (1)).

0077

Crop production as related to irrigation for several crops at different locations: Soybean evapotranspiration and yield response to growth stage water deficits (Glycine max, irrigation timing, stress, Colorado).
Hanks, R.J. Danielson, R.E.; Pruitt, W.D.; Martin, P.E. Logan : The Station. Research report - Utah Agricultural Experiment Station. 1982. 1982. (65). p. 344-367. ill. 11 ref. (NAL

Call No.: S1.U7).

0078

Crop rotation vs. monoculture. I. Insect control (Pests of maize, cotton, rice, soybeans, sorghum).
Barnes, G. Madison, Wis., American Society of Agronomy. Crops and soils magazine. Jan 1980. v. 32 (4). p. 15-17. ill. (NAL Call No.: 6 W55).

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Double cropping winter wheat and soybeans in Indiana.
Swearingin, Marvin L. Bauman, Thomas T.; Robbins, Paul R.; Edwards, Richard.; Doster, D. Howard.; Parsons, Sammuel D. 1979. This publication extensively covers double cropping winter wheat and soybeans in Indiana. The contents of the article covers an overview of double cropping in Indiana. Management suggestions for no-till double cropping, profit potential of double cropping wheat and soybean, weed control in double cropping, insect control, along with harvesting and drying high moisture wheat. Document available from: Mailing Room, Ag. Administration Bldg., Purdue University, West Lafayette, IN 47907. 22 p. : ill. (NAL Call No.: ID-96).

0080

Early planting of soybeans in cyst-infested soil and the effects on the size and number of nodules (Nematodes, rhizobium, inhibitation).
Pacumbaba, R.P. Sapra, V.T. Normal : The School. Annual research report - School of Agriculture. Environmental Science and Home Economics. Alabama Agricultural and Mechanical University. 1983. 1983. (12th). p. 91-94. ill. Includes references. (NAL Call No.: S537.A2A34).

0081

Effect of green stink bug (Acrosternum hilare) damage on soybean seed quality before and after storage.
Miner, F.D. AR. Dumas, B.A. Fayetteville, Ark., The Station. Bulletin - Agricultural Experiment Station, University of Arkansas. Apr 1980. Apr 1980. (844). 19 p. 16 ref. (NAL Call No.: 100 AR42).

0082

The effect of late-season application of benomyl (Benlate) (fungicide) on yield and quality of soybeans.
Sciumbato, G.L. Andrews, C.H.; Davis, R.G. Mississippi State, The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Aug 1981. v. 44 (8). p. 1-2. ill. (NAL Call No.: 100 M69MI).

0083

Effect of nematicides and application methods on sting nematode (Belonolaimus longicaudatus) control, root nodulation, and yield of soybeans.
Rhoades, H.L. n.p., The Society. Proceedings - Soil and Crop Science Society of Florida. 1980. v. 39. p. 90-92. 8 ref. (NAL Call No.: 56.9 S032).

0084

Effect of plant protectant additives used with metribuzin on soybean production and weed control.
Griffin, J.L. Harger, T.R.; Habetz, R.J. Crowley. Annual progress reportLouisiana. Rice Experiment Station. 1980. 1980. (72nd). p. 363-364. (NAL Call No.: 100 L93 (3)).

0085

Effect of the soybean cyst nematode upon soybean production under different management systems (Continuous cropping of resistant or susceptible soybean varieties, Mississippi).
Hartwig, E.E.RRMSD. Buehring, N.; Young, L.D. Mississippi State : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. Aug 1982. v. 7 (9). 4 p. (NAL Call No.: S79.E37).

0086

Effects of cultivars and cultural practices on Sclerotinia stem rot of soybean (Sclerotinia sclerotiorum, Whetzelinia sclerotiorum, Glycine max, Wisconsin).
Grau, C.R. Radke, V.L. St. Paul, American Phytopathological Society. Plant disease. Jan 1984. v. 68 (1). p. 56-58. Includes references. (NAL Call No.: 1.9 P69P).

0087

Effects of plant and row spacing on dryland soybean yield and water-use efficiency (Glycine max, water stress).
Alessi, J. Power, J.F. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1982. v. 74 (5). p. 851-854. ill. 18 ref. (NAL Call No.: 4 AM34P).

0088

Effects of row-spacing, weed control treatment and cultivar on the competitive ability of soybeans.
Bundick, E.L. Regehr, D.L. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society.Northeastern Weed Science Society. p. 95.p. 95. (NAL Call No.: 79.9 N814).

0089

Effects of weeds on the diversity and abundance of insects in soybeans.
Shelton, M.D.EVETB. Edwards, C.R. College Park : Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 296-298. Includes references. (NAL Call No.: QL461.E532).

0090

Emergence and yield of fungicide-treated soybean seed differing in quality (Glycine max, control of soil-borne fungi, Phomopsis, cultivars, Iowa).
Wall, M.T.AGJOA. McGee, D.C.; Burris, J.S. Madison : American Society of Agronomy. Agronomy journal. Nov/Dec 1983. v. 75 (6). p. 969-973. Includes references. (NAL Call No.: 4 AM34P).

0091

Evaluating hail-damaged soybeans.
Hardman, L.L. MN. Hicks, D.R. St. Paul, Minn., The Service. Extension bulletin - Agricultural Extension Service, University of Minnesota. 1980. 1980. (455). 16 p. ill. (NAL Call No.: 275.29 M66S).

0092

Factors affecting the reaction of soybeans to Phytophthora megasperma var. sojae in hydroponic culture (Glycine max).
Keeling, B.L. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1982. v. 22 (2). p. 325-327. Includes 4 ref. (NAL Call No.: 64.8 C883).

0093

Fertilizer reduces yield loss from weather stress (Corn, soybeans, research in Ohio).
Johnson, J.BCPFA. Atlanta : Potash & Phosphate Institute. Better crops with plant food. Summer 1983. v. 67. p. 6-7. (NAL Call No.: 6 B46).

0094

Forage production and weed control in a double-cropping program (Avena sativa, Zea mays, Glycine max, Sorghum bicolor, Wisconsin).
Okoli, P.S.O. Drolsom, P.N.; Scholl, J.M. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 363-366. Includes references. (NAL Call No.: 4 AM34P).

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Herbicide field trials on field crops, 1980 (Cotton, soybeans, yields).
Frans, R. McClelland, M.; Terhune, E. Fayetteville, Ark., The Station. Mimeograph series - Arkansas, Agricultural Experiment Station. Apr 1981. Apr 1981. (288). 62 p. (NAL Call No.: 100 AR42M).

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Herbicides for soybeans planted in conventional seedbeds, 1979 (Illinois).
McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 77-84. (NAL Call No.: S1.D5).

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Herbicides for O-till corn in soybean stubble, 1979 (No-tillage systems, Illinois).
McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 57-60. Includes 1 ref. (NAL Call No.: S1.D5).

0098

How to handle herbicide damage (Atrazine, seeding rates, soybeans).
Watkins, R. Hardwick, C. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1981. v. 41 (7). p. 60-61. ill. (NAL Call No.: 60.38 SO9).

0099

Identification and evaluation of soil chemical and physical properties limiting root development in Louisiana soils (Soybeans, wheat, minimum tillage, yields).
Dabney, S.M. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 290-299. ill. (NAL Call No.: 100 L936).

0100

Impact of ozone on soybean yield (Air pollution).
Kress, L.W.JEVQA. Miller, J.E. Madison : American Society of Agronomy. Journal of environmental quality. Apr/June 1983. v. 12 (2). p. 276-281. Includes references. (NAL Call No.: QH540.J6).

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PLANT NUTRITION

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0381

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Lam-Sanchez, A. Champaign, Ill., The Society. Journal of the American Oil Chemists' Society. Mar 1981. v. 58 (3). p. 128-130. Includes 15 ref. (NAL Call No.: 307.8 J82).

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0395

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0396

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0399

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0401

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Pataky, J.K. Lim, S.M. Urbana, The Station. Illinois research.Illinois. Agricultural Experiment Station. Summer 1979. v. 21 (3). p. 3-4. map. (NAL Call No.: 100 IL64).

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0404

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0405

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Blair, J. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1981. v. 41 (7). p. 32b. (NAL Call No.: 60.38 S09).

0406

Observations on the relationships between a vesicular-arbuscular fungus (Glomus sp.), a fungivorous nematode (Aphelenchus avenae), and the growth of soybeans.
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0408

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Weber, D.E. Reinert, R.A. St. Paul, American Phytopathological Society. Phytopathology. June 1979. v. 69 (6). p. 624-628. ill. 24 ref. (NAL Call No.: 464.8 P56).

0409

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0410

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0411

Photosynthetic response of field-grown soybeans to fumigations with sulphur dioxide.
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0412

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Fedtke, C. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1979. v. 27 (2). p. 192-195. ill. 29 ref. (NAL Call No.: 79.8 W41).

0413

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Gaudiel, R. Born, W.H. vanden. New York, Academic Press. Pesticide biochemistry and physiology. July 1979. v. 11 (1/3). p. 129-134. ill. 17 ref. (NAL Call No.: SB951.P49).

0414

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0415

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Nooden, L.D. Kahanak, G.M. Washington, D.C., American Association for the Advancement of Science. Science. Nov 16, 1979. v. 206 (4420). p. 841-843. ill. 21 ref. (NAL Call No.: 470 SCI2).

0416

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0417

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0418

Relative tolerance of selected soybean cultivars to Hoplolaimus columbus (nematodes) and possible effects of soil temperature.
Nyczepir, A.P. Lewis, S.A. Ames, Iowa Society of Nematologists. Journal of nematology. Jan 1979. v. 11 (1). p. 27-31. ill. 11 ref. (NAL Call No.: QL391.N4J62).

0419

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Miller, J.E. Xerikos, P.B. Essex, Applied Science. Environmental pollution. Apr 1979. v. 18 (4). p. 259-264. ill. 19 ref. (NAL Call No.: TD172.E52).

0420

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Leopold, A.C. Musgrave, M.E. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Nov 1979. v. 64 (5). p. 702-705. ill. 13 ref. (NAL Call No.: 450 P692).

0421

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Marriage, P.B. Hamill, A.S. New York, Marcel Dekker. Journal of environmental science and health. Part B: Pesticides, food contaminants, and agricultural wastes. 1978. v. B13 (3). p. 287-297. ill. 17 ref. (NAL Call No.: TD172.J61).

0422

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Emerson, B.N. Minor, H.C. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1979. v. 19 (4). p. 553-556. ill. 15 ref. (NAL Call No.: 64.8 C883).

0423

Role of roots and shoots of soybean (cultivars) in tolerance to excess soil zinc (Phytotoxicity).
White, M.C. Chaney, R.L. Madison, Crop Science Society of America. Crop science. Jan/Feb 1979. v. 19 (1). p. 126-128. ill. 18 ref. (NAL Call No.: 64.8 C883).

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0501

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Hammond, R.B. Pedigo, L.P. College Park, Md., Entomological Society of America. Journal of economic entomology. Feb 1982. v. 75 (1). p. 102-107. 2 p. ref. (NAL Call No.: 421 J822).

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0505

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0509

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0510

Dispersion and spread of the entomopathogenic fungus Nomuraea rileyi (Moniliales:Moniliaceae) in a soybean field (Plathypena scabra, Pseudoplusia includens, Anticarsia gemmatalis).
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0963

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Effect of foliar fungicides on disease contr and yield of 'Williams' soybeans at Princeto Kentucky, 1981 (Soybean (Glycine max 'Williams'), pod and stem blight; Diaporthe phaseolorum var. sojae (Phomopsis), anthracnose; Colletotrichum dematium vr. truncata).
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0967

Effect of foliar fungicides on disease control and yield of 'Williams' soybeans at Princeton, Kentucky, 1980 (Soybean (Glycine max 'Williams'), pod and stem blight; Diaporthe phaseolorum var. sojae (Phomopsis), anthracnose; Colletotrichum dematium var. truncata, brown spot; Septoria glycines).
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0969

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1032

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1034

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1035

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Soybean seed treatments, 1982 (Fungicides used for pre- and postemergence damping off, seed and soilborne microorganisms, Glycine max).
Datnoff, L.E.FNETD. Cubeta, M.A.; Bisht, V.S.; Thapliyal, P.N.; Sinclair, J.B. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 32. (NAL Call No.: 464.9 AM31R).

1201

Soybean stem canker, a major disease in 1981 (caused by the fungus Diaporthe phaseolorum, Tennessee).
Hilty, J.W.TFHSA. Knoxville : The Station. Tennessee farm and home science - Tennessee Agricultural Experiment Station. Oct/Dec 1981. Oct/Dec 1981. (120). p. 16-17. ill. (NAL Call No.: 100 T25F).

1202

Soybean stem canker: a serious disease in Alabama (Diaporthe phaseolorum).
Backman, P.A. Crawford, M.A.; White, J. Auburn, The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Winter 1981. v. 28 (4). p. 6. ill. (NAL Call No.: 100 AL1H).

1203

Soybean varieties: fungicide seed treatments, foliar fungicides, nematicides.
Schmitt, D.P. Ross, J.P. Raleigh, N.C., The Service. AG - North Carolina State University, Agricultural Extension Service. Aug 1980. Aug 1980. (218, suppl.). 4 p. (NAL Call No.: S544.3.N6N62).

1204

Stem canker: a soybean disease recently found in Louisiana (Diaporthe phaseolorum var. caulivora, symptoms).
Snow, J.P. Berggeren, G.T.; Harville, B.G.; Whitman, H.K. Baton Rouge, La. : The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Spring 1984. v. 27 (3). p. 8-9, 24. ill., maps. (NAL Call No.: 100 L939).

1205

Stimulation of oospore production in Phytophthora megasperma f. sp. medicaginis by medicarpin (Medicago sativa, alfalfa, Canavalia ensiformis, jack beans, Glycine max, soybeans).
Vaziri, A.PHYTA. Keen, N.T.; Erwin, D.C. St. Paul : American Phytopathological Society. Phytopathology. May 1983. v. 73 (5). p. 730-734. Includes references. (NAL Call No.: 464.8 P56).

1206

Storage and use of Phytophthora megasperma var. sojae oospores as inoculum (causes of root and stem rot in soybeans).
Kittle, D.R. Gray, L.E. St. Paul, Minn., American Phytopathological Society. Phytopathology. Aug 1979. Aug 1979. . 69 (8). p. 821-823. ill. 19 ref. (NAL Call No.: 464.8 P56).

1207

Studies on the epidemic regulation and control of soybean rust caused by Phakopsora pachyrhizi Sydow.
Tan, Y.J.ISSODB. Yu, Z.L.; Liu, J.L. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 169-174. Includes references. (NAL Call No.: TX558.S715).

1208

Suppression of anthracnose of soybeans by calcium (Caused by Colletotrichum dematium).
Muchovej, J.J. Muchovej, R.M.C.; Dhingra, O.D.; Maffia, L.A. St. Paul, Minn., American Phytopathological Society. Plant disease. Dec 1980. v. 64 (12). p. 1088-1089. ill. 12 ref. (NAL Call No.: 1.9 P69P).

1209

Surface disinfestation of soybean seeds for selective recovery of seedborne microorganisms (Phomopsis sojae, Bacillus subtilis, Cercospora kikuchii, Cercospora sojina).
Grybauskas, A.P. Sinclair, J.B. Beltsville, Md., The Administration. Plant disease reporter.United States. Dept. of Agriculture. Science and Education Administration. Oct 1979. v. 63 (10). p. 887-891. ill. 4 ref. (NAL Call No.: 1.9 P69P).

1210

Survival of Macrophomina phaseolina in soil and in residue of soybean (Charcoal rot, Missouri).
Short, G.E. Wylie, T.D.; Bristow, P.R. St. Paul, Minn., American Phytopathological Society. Phytopathology. Jan 1980. v. 70 (1). p. 13-17. ill. 21 ref. (NAL Call No.: 464.8 P56).

1211

Systemic fungicides for controlling Phytophthora (megasperma sojae) root rot and damping-off of soybean.
Papavizas, G.C. Schwenk, F.W. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Aug 1979. v. 63 (8). p. 708-712. ill. 16 ref. (NAL Call No.: 1.9 P69P).

1212

Systemicity and fungicidal activity of three systemic fungicides in soybean / by Poorna Nand Thapliyal.
Thapliyal, Poorna Nand, 1939. 1970. Thesis (Ph.D.)--University of Illinois, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. ix, 51 leaves ; 21 cm. Bibliography: leaves 46-48. (NAL Call No.: DISS 71-14,967).

1213

Systemicity of 14C-labeled chloroneb in soybean tissues / by Prem Dutt Kharbanda.
Kharbanda, Prem Dutt, 1940. 1971. Thesis (Ph.D.)--University of Illinois, Urbana-Champaign, 1971. Photocopy of typescript. Ann Arbor: University Microfilms. 1972. vii, 46 leaves ; 21 cm. Bibliography: leaves 41-44. (NAL Call No.: DISS 72-6,976).

1214

Temperature-induced changes in specificity in the interaction of soybeans with Phytophthora megasperma f. sp. glycinea.
Ward, E.W.B. Lazarovits, G. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 826-830. 29 ref. (NAL Call No.: 464.8 P56).

1215

Tests during storage of Phomopsis sojae-infected soybean seeds from benomyl-treated field plots.
Schoen, J.F. n.p., The Association. The News letter of the Association of Official Seed Analysts. May 1980. v. 54 (2). p. 50-53. 5 ref. (NAL Call No.: 61.9 AS7N).

1216

Tests on Phomopsis-infected soybean seed under controlled storage conditions.
Schoen, J.F. Schlub, P. (s.l.), The Association. The News letter of the Association of Official Seed Analysts. Sept 1980. v. 54 (3). p. 78-79. 2 ref. (NAL Call No.: 61.9 AS7N).

1217

Thermotherapy of soybean seeds to control seedborne fungi (Phomopsis spp.).
Zinnen, T.M. Sinclair, J.B. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 831-834. 10 ref. (NAL Call No.: 464.8 P56).

1218

Top dieback of soybean caused by Diaporthe phaseolorum var. caulivora.
Hobbs, T.W. Schmitthenner, A.F.; Ellett, C.W.; Hite, R.E. St. Paul, Minn., American Phytopathological Society. Plant disease. July 1981. v. 65 (7). p. 618-620. ill. Includes 17 ref. (NAL Call No.: 1.9 P69P).

1219

Treating soybean seed to control soil-borne seedling disease, 1979 (Soybean (Glycine max 'Pomona', 'Forest' and 'Cumberland), pre- and postemergence damping-off, various soil-borne microorganisms).
Crowe, F.J. Sanden, G.E. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 191. (NAL Call No.: 464.9 AM31R).

1220

Treatment of soybean seed with Ridomil and Captan for control of Phytophthora megsperma f.sp. glycinea, 1981 (Soybean (Glycine max 'Amsoy', 'Amsoy 71', 'Corsoy', 'Corsoy 79', 'Harcor', 'Marshall', 'Pike', 'Pike II', 'Pride B216', 'Steele', 'A78-125029', 'A78-227013', 'A78-227015', 'A78-227016'), pre- and postemergence damping-off and root rot-; Phytophthora megasperma f.sp. glycinea).
Hatfield, J.D. Tachibana, H. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 171-173. (NAL Call No.: 464.9 AM31R).

1221

Trifluralin enhancement of Phytophthora (megasperma sojae) root rot of soybean (Herbicides).
Duncan, D.R. Paxton, J.D. St. Paul, Minn., American Phytopathological Society. Plant disease. May 1981. v. 65 (5). p. 435-436. 12 ref. (NAL Call No.: 1.9 P69P).

1222

Twin-stem abnormality disease of soybean seedlings caused by Sclerotium sp.
Dhingra, O.D. Muchovej, J.J. St. Paul, Minn., American Phytopathological Society. Plant disease. Feb 1980. v. 64 (2). p. 176-178. ill. 1 ref. (NAL Call No.: 1.9 P69P).

1223

Two genes for resistance to race 5 of Cercospora sojina in soybeans (Frogeye leafspot, Glycine max).
Phillips, D.V. Boerma, H.R. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 764-766. 9 ref. (NAL Call No.: 464.8 P56).

1224

Use of paraquat to aid detection of fungi (Diaporthe phaseolorum) in soybean tissues.
Cerkauskas, R.F. Sinclair, J.B. St. Paul, Minn., American Phytopathological Society. Phytopathology. Nov 1980. v. 70 (11). p. 1036-1038. 16 ref. (NAL Call No.: 464.8 P56).

1225

Variation among isolates of Colletotrichum dematium var. truncata from soybean and three Colletotrichum spp. to benomyl.
Rodriguez-Marcano, A. Sinclair, J.B. Rio Piedras, The Station. The Journal of agriculture of the University of Puerto Rico - Puerto Rico, Agricultural Experiment Station. Jan 1982. v. 66 (1). p. 35-43. ill. Includes 14 ref. (NAL Call No.: 8 P832J).

1226

Virulence and aggressiveness of Phakopsora pachyrhizi isolates causing soybean rust.
Bromfield, K.R. AR-NE. Melching, J.S.; Kingsolver, C.H. St. Paul, Minn., American Phytopathological Society. Phytopathology. Jan 1980. v. 70 (1). p. 17-21. ill. 10 ref. (NAL Call No.: 464.8 P56).

1227

White mold of beans.
Hart, L. Patrick. Saettler, A. W. Document available from: Michigan State University, Bulletin Office, P.O.Box 231, East Lansing, Michigan 48824 1981. Discusses this pathogen; it's life cycle; symptoms; environmental factors; and control. 4 p. : ill. (NAL Call No.: Document available from source.).(NAL Call No.: EB E-892).

1228

Whoops!! Incorrect results caused by fungus (Fusarium, Alternaria, soybeans).
Glenn, B. Jr. Hansen, B.F. n.p. News letterAssociation of Official Seed Analysts. Feb 1979. v. 53 (1). p. 33-34. (NAL Call No.: 61.9 AS7N).

1229

Widely virulent isolates of Phytophthora megasperma f. sp. glycinea causing root and stem rot of soybeans in New York (Multirace-resistant cultivar).
Tooley, P.W. Bergstrom, G.C.; Wright, M.J. St. Paul, Minn. : American Phytopathological Society. Plant disease. Aug 1984. v. 68 (8). p. 726-727. Includes 12 references. (NAL Call No.: 1.9 P69P).

1230

Yield losses in soybeans from anthracnose caused by Colletotrichum truncatum (Glycine max, cultivars, southeastern United States).
Backman, P.A. Williams, J.C.; Crawford, M.A. St. Paul, American Phytopathological Society. Plant disease. Nov 1982. v. 66 (11). p. 1032-1034. ill. 9 ref. (NAL Call No.: 1.9 P69P).

1231

Yield losses in soybeans induced by powdery mildew (Microsphaera diffusa).
Dunleavy, J.M. AR-NC. St. Paul, Minn., American Phytopathological Society. Plant disease. Mar 1980. v. 64 (3). p. 291-292. ill. 8 ref. (NAL Call No.: 1.9 P69P).

PLANT DISEASES - BACTERIAL

1232

Association of volatile aldehyde production during germination with poor soybean and pea seed quality (Soilborne fungi and bacteria, vigor and viability).
Harman, G.E. Nedrow, B.L.; Clark, B.E.; Mattick, L.R. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1982. v. 22 (4). p. 712-716. ill. 19 ref. (NAL Call No.: 64.8 C883).

1233

Bacteria-free soybean plants / by Jerry Fred Strissel.
Strissel, Jerry Fred, 1942. 1970. Thesis (Ph.D.)--Iowa State University, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. iv, 85 leaves : ill. ; 21 cm. Bibliography: leaves 76-84. (NAL Call No.: DISS 71-7,333).

1234

Bacterial tan spot, a new foliar disease of soybeans (Corynebacterium flaccumfaciens).
Dunleavy, J.M.CRPSA. Madison : Crop Science Society of America. Crop science. May/June 1983. v. 23 (3). p. 473-476. ill., maps. Includes references. (NAL Call No.: 64.8 C883).

1235

Effect of light on bacteria (Erwinia amylovora)-induced hypersensitivity in soybean.
Giddix, L.R. Jr. Lukezic, F.L.; Pell, E.J. St. Paul, Minn., American Phytopathological Society. Phytopathology. Feb 1981. v. 71 (2). p. 111-115. ill. 38 ref. (NAL Call No.: 464.8 P56).

1236

Effects of sulfur dioxide on expansion of lesions caused by Corynebacterium nebraskense in maize and by Xanthomonas phaseoli var. sojensis in soybean (Air pollution injuries).
Laurence, J.A. Aluisio, A.L. St. Paul, Minn., American Phytopathological Society. Phytopathology. Apr 1981. v. 71 (4). p. 445-448. 11 ref. (NAL Call No.: 464.8 P56).

1237

Fungicide evaluation for control of foliar, pod and stem diseases of soybeans, 1979 (Soybean (Glycine max, 'Crawford', 'Essex', 'Cumberland'), foliar, pod and stem diseases, brown spot; Septoria glycines, downy mildew; Peonospora manshurica, bacterial blight; Pseudomonas glycinea, bacterial pustule; Xanthomonas phaseoli).
Crowe, F.J. Sanden, G.E. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 94-95. (NAL Call No.: 464.9 AM31R).

1238

Host-pathogen interactions. XVIII. Isolation and biological activity of glycinol, a pterocarpan phytoalexin synthesized by soybeans.
Weinstein, L.I. Hahn, M.G.; Albersheim.; P. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Aug 1981. v. 68 (2). p. 358-363. ill. 24 ref. (NAL Call No.: 450 P692).

1239

Host-pathogen interactions. XXII. A galacturonic acid oligosaccharide from plant cell walls elicits phytoalexins (Glycine max, soybeans, Colletotrichum lindemuthianum, Erwinia carotovora).
Nothnagel, E.A.PLPHA. McNeil, M.; Albersheim, P.; Dell, A. Rockville : American Society of Plant Physiologists. Plant physiology. Apr 1983. v. 71 (4). p. 916-926. Includes references. (NAL Call No.: 450 P692).

1240

Host-pathogen interactions. XXV. Endopolygalacturonic acid lyase from Erwinia carotovora elicits phytoalexin accumulation by releasing plant cell wall fragments (Glycine max, soybeans).
Davis, K.R. Lyon, G.D.; Darvill, A.G.; Albersheim, P. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Jan 1984. v. 74 (1). p. 52-60. ill. Includes references. (NAL Call No.: 450 P692).

1241

Inhibition of bacteria by the soybean isoflavonoids glyceollin and coumestrol (Pseudomonas syringae, Xanthomonas campestris).
Fett, W.F. Osman, S.F. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 755-760. 28 ref. (NAL Call No.: 464.8 P56).

1242

Inhibition of chlorophyll synthesis by Pseudomonas glycinea (Bacterial blight of soybean).
Gulya, T. Jr. Dunleavy, J.M. Madison, Crop Science Society of America. Crop science. Mar/Apr 1979. v. 19 (2). p. 261-264. ill. 22 ref. (NAL Call No.: 64.8 C883).

1243

Leaf infection and yield losses caused by brown spot and bacterial blight diseases of soybean (Septoria glycines and Pseudomonas glycinea).
Williams, D.J. APHIS. Nyvall, R.F. St. Paul, Minn., American Phytopathological Society. Phytopathology. Sept 1980. v. 70 (9). p. 900-902. 15 ref. (NAL Call No.: 464.8 P56).

1244

Monitoring soybeans in Illinois for foliar diseases (Septoria glycines, Peronospora manshurica, Pseudomonas glycinea).
Pataky, J.K. Lim, S.M. St. Paul, American Phytopathological Society. Phytopathology. May 1979. v. 69 (5). p. 541. (NAL Call No.: 464.8 P56).

1245

A new bacterial agglutinin (Xanthomonas phaseoli var. sojensis) from soybean. I. Isolation, partial purification, and characterization.
Fett, W.F. Sequeira, L. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Nov 1980. v. 66 (5). p. 847-852. ill. 29 ref. (NAL Call No.: 450 P692).

1246

A new bacterial agglutinin (Xanthomonas phaseoli var. sojensis) from soybean. II. Evidence against a role in determining pathogen specificity.
Fett, W.F. Sequeira, L. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Nov 1980. v. 66 (5). p. 853-858. ill. 33 ref. (NAL Call No.: 450 P692).

1247

A new race of Pseudomonas glycinea (and the pathogenic response of seven soybean cultivars to it).
Thomas, M.D. Leary, J.V. St. Paul, Minn., American Phytopathological Society. Phytopathology. Apr 1980. v. 70 (4). p. 310-312. ill. 18 ref. (NAL Call No.: 464.8 P56).

1248

Occurrence of a leafhopper-transmitted disease of soybeans in Louisiana (Scaphytopius acutus, possible mycoplasmal disease, soybean bud proliferation, insect vectors).
Derrick, K.S. Newsom, L.D. St. Paul, Minn. : American Phytopathological Society. Plant disease. Apr 1984. v. 68 (4). p. 343-344. ill. Includes references. (NAL Call No.: 1.9 P69P).

1249

Occurrence of Pseudomonas syringae on bean and soybean in Kenya.
Kaiser, W.J. Ramos, A.H. St. Paul, Minn., American Phytopathological Society. Plant disease. June 1980. v. 64 (6). p. 593-595. ill. 20 ref. (NAL Call No.: 1.9 P69P).

1250

Role of bacterial immobilization in race-specific resistance of soybean to Pseudomonas syringae pv. glycinea (Bacterial blight of Glycine max).
Fett, W.F. Jones, S.B. St. Paul, Minn., American Phytopathological Society. Phytopathology. May 1982. v. 72 (5). p. 488-492. ill. Includes 23 ref. (NAL Call No.: 464.8 P56).

1251

The role of phytoalexins in the resistance of soybean leaves to bacteria: effect of glyphosate on glyceollin accumulation (Glycine max, Pseudomonas syringae pv. glycinea, herbicides).
Holliday, M.J.PHYTA. Keen, N.T. St. Paul : American Phytopathological Society. Phytopathology. Nov 1982. v. 72 (11). p. 1470-1474. 27 ref. (NAL Call No.: 464.8 P56).

1252

Seasonal variation in populations of pathogenic pseudomonads on soybean leaves (Pseudomonas glycinea, Glycine max).
Mew, T.W. Kennedy, B.W. St. Paul, Minn., American Phytopathological Society. Phytopathology. Jan 1982. v. 72 (1). p. 103-105. Includes 13 ref. (NAL Call No.: 464.8 P56).

1253

The seed: a microcosm of microbes (Soybeans).
Sinclair, J.B. East Lansing, Association of Official Seed Analysts. Journal of seed technology. 1979. v. 4 (2). p. 68-73. ill. 8 ref. (NAL Call No.: SB113.2.J6).

1254

The seed-borne nature of some soybean pathogens, the effect of Phomopsis spp. and Bacillus subtilis on germination, and their occurrence in soybeans produced in Illinois.
Sinclair, J.B. Zurich, International Seed Testing Association. Seed science and technology. 1978. v. 6 (4). p. 957-964. ill. 24 ref. (NAL Call No.: SB117.S455).

1255

Soybean diseases.
Scott, Donald H. Sharvelle, Eric G.& An aid to identification. Document available from: Purdue University, Publication Mailing Room, 301 South Secord Street, Lafayette, Indiana 47905 1969. Lists soybean diseases and how to identify them. 1 sheet : ill. (NAL Call No.: Document available from source.).(NAL Call No.: BP-5-17).

1256

Soybean diseases (Fungal, bacterial, viral).
Crowe, F. Manhattan, Kan., The Service. C - Kansas State University, Cooperative Extension Service. May 1982. May 1982. (449). p. 16-19. (NAL Call No.: 275.29 K13EX).

1257

Soybeans susceptible to tan spot (Erwinia herbicola).
Pierce, R.G. Washington, Science and Education Administration, U.S. Dept. of Agriculture. Agricultural research. Apr 1979. v. 27 (10). p. 7. (NAL Call No.: 1.98 AG84).

1258

Specific elicitors of glyceollin accumulation in the Pseudomonas glycinea-soybean host-parasite system.
Bruegger, B.B. Keen, N.T. London, Academic. Physiological plant pathology. July 1979. v. 15 (1). p. 43-51. ill. 29 ref. (NAL Call No.: SB599.P45).

1259

Studies of the epidemiology of bacterial blight of soybean / by Gilbert Clayton Daft.
Daft, Gilbert Clayton, 1916. 1970. Thesis (Ph.D.)--Ohio State University, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. xiii, 107 leaves ; 21 cm. Bibliography: leaves 105-107. (NAL Call No.: DISS 71-17,979).

1260

Studies on natural occurrence of plant pathogenic fluorescent pseudomonads in the phyllosphere of soybean.
Mew, Twng Wah. Ann Arbor, Mich. University Microfilms 1973. Thesis--University of Minnesota, 1972. (5), (82) leaves. Bibliography: leaves 72-75. (NAL Call No.: DISS 73-1,044).

1261

A study of distribution and sampling of soybean plants naturally infected with Pseudomonas syringae pv. glycinea (Bacterial blight, Glycine max).
Poushinsky, G. Basu, P.K. St. Paul : American Phytopathological Society. Phytopathology. Mar 1984. v. 74 (3). p. 319-326. Includes references. (NAL Call No.: 464.8 P56).

1262

Surface disinfestation of soybean seeds for selective recovery of seedborne microorganisms (Phomopsis sojae, Bacillus subtilis, Cercospora kikuchii, Cercospora sojina).
Grybauskas, A.P. Sinclair, J.B. Beltsville, Md., The Administration. Plant disease reporter.United States. Dept. of Agriculture. Science and Education Administration. Oct 1979. v. 63 (10). p. 887-891. ill. 4 ref. (NAL Call No.: 1.9 P69P).

PLANT DISEASES - VIRAL

1263

Bean pod mottle disease in soybeans in Mississippi (Cerotoma trifurcata, vector).
Pitre, H.N. MS. Mississippi State, The Station. Research report - Mississippi Agricultural & Forestry Experiment Station. July 1980. v. 5 (12). 4 p. ill., map. 8 ref. (NAL Call No.: S79.E37).

1264

Bean pod mottle virus and cowpea mosaic virus in Louisiana soybeans / by Kenneth Cosmas Gremillion.
Gremillion, Kenneth Cosmas, 1939. 1971. Thesis (Ph.D.)--Louisiana State University and Agricultural and Mechanical College, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. viii, 74 leaves ; 21 cm. Bibliography: leaves 69-73. (NAL Call No.: DISS 72-3,489).

1265

Bean pod mottle (virus) disease in soybeans (Cerotoma trifurcata, vectors).
Pitre, H.N. MS. Mississippi State, The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Sept 1980. v. 43 (9). p. 1-3. ill., map. (NAL Call No.: 100 M69MI).

1266

Calico mosaic of soybean: sources of resistance and inheritance of reaction (caused by alfalfa mosaic virus).
Almeida, A.M.R. Kiihl, R.A.S.; Almeida, L.A. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 18-21. 4 ref. (NAL Call No.: aSB205.S7S6).

1267

Control of yellow mosaic of soybean by systemic insecticides, 1976-78 (Soybean (Glycine max 'Bragg'), mung bean yellow mosaic, MYMV, whitefly; Bemisia tabaci Genn, (Vector).
Dhingra, K.L. Chenulu, V.V. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 103. (NAL Call No.: 464.9 AM31R).

1268

Cytopathology of soybean tissue culture cells infected with southern bean mosaic virus.
Wu, F.S. Hooper, G.R.; Murskishi, H.M. Gaithersburg, Md., The Association. In vitro; journal of the Tissue Culture Association. June 1982. v. 18 (6). p. 525-530. ill. 10 ref. (NAL Call No.: QH585.A1I58).

1269

Detection of pathogenic strains of soybean mosaic virus by enzyme-linked immunosorbent assay with polystyrene plates and beads as the solid phase (Glycine max).
Chen, L.C. Durand, D.P.; Hill, J.H. St. Paul, Minn., American Phytopathological Society. Phytopathology. Sept 1982. v. 72 (9). p. 1177-1181. 35 ref. (NAL Call No.: 464.8 P56).

1270

Detection of seedborne plant viruses using serologically specific electron microscopy (Tobacco ringspot virus, barley stripe mosaic virus, lettuce mosaic virus, soybean mosaic virus).
Brlansky, R.H. Derrick, K.S. St. Paul, American Phytopathological Society. Phytopathology. Jan 1979. v. 69 (1). p. 96-100. ill. 14 ref. (NAL Call No.: 464.8 P56).

1271

Detection of soybean mosaic virus in seed by solid-phase radioimmunoassay.
Bryant, G.R. Hill, J.H.; Bailey, T.B.; Tachibana, H.; Durand, D.P.; Benner, H.I. St. Paul, American Phytopathological Society. Plant disease. Aug 1982. v. 66 (8). p. 693-695. 15 ref. (NAL Call No.: 1.9 P69P).

1272

Development of a solid-phase radioimmunoassay for detection of soybean mosaic virus (Glycine max).
Bryant, G.R.PHYTA. Durand, D.P.; Hill, J.H. St. Paul : American Phytopathological Society. Phytopathology. Apr 1983. v. 73 (4). p. 623-629. Includes references. (NAL Call No.: 464.8 P56).

1273

Distribution of bean pod mottle virus in Arkansas soybean as related to the bean leaf beetle, Cerotoma trifurcata, (Coleoptera:Chrysomelidae) population.
Hopkins, J.D.EVETB. Mueller, A.J. College Park : Entomological Society of America. Environmental entomology. Oct 1983. v. 12 (5). p. 1564-1567. Includes references. (NAL Call No.: QL461.E532).

1274

Diversity and abundance of aphid species associated with soybean mosaic virus in Iowa (Rhopalosiphum maidis, Macrosiphum euphorbiae).
Hammond, R.B. Pedigo, L.P. Lawrence : The Society. Journal of the Kansas Entomological Society. Oct 1982. v. 55 (4). p. 754-758. 4 ref. (NAL Call No.: 420 K13).

1275

Dynamics of aphid transmission of soybean mosaic virus.
Halbert, S.E.ISSODB. Irwin, M.E.; Goodman, R.M. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 175-179. Includes references. (NAL Call No.: TX558.S715).

1276

Effect of bean pod mottle virus and soybean mosaic virus on nitrogen fixation in soybeans (Glycine max).
Hicks, P.M.PLAAA. Bollich, P.K.; Dunigan, E.P.; Harville, B.G.; Mitchell, P. (s.l.) : The Academy. The proceedings of the Louisiana Academy of Sciences. 1983. v. 46. p. 106-108. Includes references. (NAL Call No.: 500 L932).

1277

Effect of soybean mosaic virus on root volume and dry weight of soybean plants.
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PROTECTION OF PLANT PRODUCTS - GENERAL AND MISC.

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1981. This publication contains researched information on planting dates verses plant population, breeding, cold tolerance and Zn, S, K fertilization for corn. Soybean information on brown stem rot and bacterial tan spot is provided. Additional topics include herbicide evaluation, small grain tests, and vegetable garden demonstrations. Document available from: Iowa State Univ., Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 24 p. : ill. (NAL Call No.: Not available at NAL.).(NAL Call No.: ORC 80-14,22).

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1899

Annual progress report - 1980 / Iowa State University.
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Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1981. This publication is a progress report in the following areas: soil moisture, corn and soybean herbicides, delayed planting of soybeans, plant populations for sunflowers, rock phosphate and superphosphate comparison, rates of N and P fertilizers, brown stem rot, tillage observations, seedbed preparations for corn and soybean, and crop variety research. 25 p. : ill. (NAL Call No.: Document available from source.).(NAL Call No.: DRC 80-29).

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Effects of rotations with susceptible and resistant peanuts, soybeans, and corn on inoculum efficiency of Cylindrocladium crotalariae on peanuts (Arachis hypogaea, Glycine max, Zea mays, root rot, North Carolina).
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McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 57-60. Includes 1 ref. (NAL Call No.: S1.D5).

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Dabney, S.M. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 290-299. ill. (NAL Call No.: 100 L936).

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Influence of maize rotations on the yield of soybean grown in Meloidogyne incognita infested soil (Root-knot nematode, cultivars, southeastern USA).
Kinloch, R.A. Ames, Iowa : Society of Nematologists. Journal of nematology. July 1983. v. 15 (3). p. 398-405. Includes references. (NAL Call No.: QL391.N4J62).

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Thompson, D. Thompson, S. Emmaus, Pa., Rodale Press. The New farm. Sept/Oct 1982. v. 4 (6). p. 22-25. (NAL Call No.: S1.N32).

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Reduce tillage--but not weed control (Soybeans).
Mangold, G. St. Louis, Mo., American Soybean Association. Soybean digest. Feb 1981. v. 41 (4). p. 10-11. ill. (NAL Call No.: 60.38 S09).

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Buntley, G.J. Atlanta, Potash & Phosphate Institute. Better crops with plant food. Summer 1982. v. 66. p. 3-5. (NAL Call No.: 6 B46).

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Tillage and weed control practices in soybeans grown on Sharkey clay soil.
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Use of nitrogen stress to demonstrate the effect of yield limiting factors on the yield response of soybean to narrow row systems (Glycine max, solid seeding, Ohio).
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Volunteer corn control (Weed corn in soybeans, crop rotation systems, glyphosate, Minnesota).
Pierce, R. Washington, D.C., The Service. Agricultural research - United States Agricultural Research Serivce. Nov 1981. v. 30 (5). p. 7. ill. (NAL Call No.: 1.98 AG84).

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Banks, P.A.GARRA. Kvien, J.S. Athens : The Stations. Research report - University of Georgia, College of Agriculture, Experiment Stations. July 1983. July 1983. (431). 6 p. Includes references. (NAL Call No.: S51.E22).

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Burnside, O.C.WEESA. Carlson, D.R. Champaign : Weed Science Society of America. Weed science. Nov 1983. v. 31 (6). p. 853-856. Includes references. (NAL Call No.: 79.8 W41).

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Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Apr 1984. Apr 1984. p. 12. ill. (NAL Call No.: S604.N6).

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Rogers, H.H.JEVQA. Bingham, G.E.; Cure, J.D.; Smith, J.M.; Surano, K.A. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 569-574. Includes references. (NAL Call No.: QH540.J6).

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Hammond, R.B. Pedigo, L.P. Lawrence : The Society. Journal of the Kansas Entomological Society. Oct 1982. v. 55 (4). p. 754-758. 4 ref. (NAL Call No.: 420 K13).

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Kogan, M. College Park, Md., Entomological Society of America. Environmental entomology. June 1981. Paper presented at the Sixth International Congress of Plant Protection, Washington, D.C., August 1979. v. 10 (3). p. 363-371. ill. Bibliography p. 370-371. (NAL Call No.: QL461.E532).

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Dynamics of natural enemy populations (Natural control agents of pests of soybeans, particularly Nabis spp., Geocoris spp., Orius insidiosus, spiders, eastern United States).
Yeargan, K.V.SCSBA. Todd, J.W.; Mueller, A.J.; Yearian, W.C. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 32-38. Includes references. (NAL Call No.: 100 G29SO).

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Effect of feeding by Lema trivittata (Coleoptera: Chrysomelidae) on the growth, reproduction and competitive ability of jimsonweed (Datura stramonium) in soybeans (Abstract only).
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Passoa, S. Lawrence, Kan. : The Society. Journal of the Lepidopterists' Society. 1983. v. 37 (3). p. 217-223. ill. Includes references. (NAL Call No.: 421 L554).

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A manual for implementing an integrated pest management program for insects in soybean / William A. Allen, Robert M. McPherson.
Allen, William A. (William Albert), 1939. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1982. Pesticide Applicator Training collection -"July 1982.". 12 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-016).

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Microspatial distribution of pupal green cloverworms, Plathypena scabra (F.) (Lepidoptera: Noctuidae), in Iowa soybean fields.
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Natural mortality of lepidopteran eggs and larvae in Missouri soybeans (Trichoplusia ni, Glycine max).
Marston, N.L. Hostetter, D.L.; Pinnell, R.E.; Dickerson, W.A.; Smith, D.B. College Park : The Society. Annals of the Entomological Society of America. Jan 1984. v. 77 (1). p. 21-28. Includes references. (NAL Call No.: 420 EN82).

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Partial life tables of the green cloverworm (Lepidoptera: Noctuidae) in soybean and a hypothesis of population dynamics in Iowa (Plathypena scabra).
Pedigo, L.P.EVETB. Bechinski, E.J.; Higgins, R.A. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 186-195. Includes references. (NAL Call No.: QL461.E532).

1948

Seasonal distribution of Trichogramma (Hymenoptera:Trichogrammatidae) species associated with a Maryland soybean field (Heliothis virescens, biological control).
Thorpe, K.W. College Park, Md. : Entomological Society of America. Environmental entomology. Feb 1984. v. 13 (1). p. 127-132. Includes references. (NAL Call No.: QL461.E532).

1949

Soybean insect management guidelines number 1 -- corn earworms / John C. Smith and Robert M. McPherson.
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Soybean insect management guidelines number 2 - Mexican bean beetles / Robert M. McPherson and John C. Smith.
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Soybean insect management guidelines number 3 - stink bugs / Robert M. McPherson and John C. Smith.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"August 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-043).

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Soybean insect management guidelines, number 4 -- bean leaf beetles / Robert M. McPherson.
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Soybean insect management guidelines number 5 - green cloverworms / Robert M. McPherson.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"May 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-045).

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Soybean insect management guidelines, number 6 -- Spider mites / John C. Smith and Robert M. McPherson.
Smith, John C. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-046).

1955

Soybean insect management guidelines number 7 - natural enemies / Holly J. Ferguson and Robert M. McPherson.
Ferguson, Holly J. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"May 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-047).

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Soybean insect management guidelines, number 8 -- Trap crops / Robert M. McPherson. McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"July 1983.". 3 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-048).

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Soybean insect pest management for Virginia / Robert M. McPherson and John C. Smith. McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~"March 1984.". 10 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-040 1984).

1958

Soybean insects : identification and management in Illinois / Marcos Kogan, Donald E. Kuhlman. Kogan, Marcos. Kuhlman, Donald E. Urbana, Ill. Agricultural Experiment Station, College of Agriculture, University of Illinois at Urbana-Champaign 1982. "February, 1982". 58 p. : ill. (some col.) ; 28 cm. -. (NAL Call No.: 100 IL6S (1) no.773).

ANIMAL REPRODUCTION

1959

Effects of micrometeorological conditions on survival and fecundity of the Mexican bean beetle (Epilachna varivestis) in soybean fields.
Sprenkel, R.K. Rabb, R.L. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1981. v. 10 (2). p. 219-221. 8 ref. (NAL Call No.: QL461.E532).

1960

Development of a sampling program for estimation of pupal densities of green cloverworm (Lepidoptera: Noctuidae) in soybeans and evaluation of alternative sampling procedures (Plathypena scabra).
Bechinski, E.J.EVETB. Pedigo, L.P. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 96-100. Includes references. (NAL Call No.: QL461.E532).

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Kogan, M. College Park, Md., Entomological Society of America. Environmental entomology. June 1981. Paper presented at the Sixth International Congress of Plant Protection, Washington, D.C., August 1979. v. 10 (3). p. 363-371. ill. Bibliography p. 370-371. (NAL Call No.: QL461.E532).

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Dynamics of natural enemy populations (Natural control agents of pests of soybeans, particularly Nabis spp., Geocoris spp., Orius insidiosus, spiders, eastern United States).
Yeargan, K.V.SCSBA. Todd, J.W.; Mueller, A.J.; Yearian, W.C. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 32-38. Includes references. (NAL Call No.: 100 G29SO).

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Ecological impact of parathion in soybeans. I. Vegetative fauna. (Predatory arthropods, detrimental effects, insecticides, Plathypena scabra, natural control, Missouri field experiments).
Marston, N.L.XATBA. Hennessey, M.K. Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Dec 1982. Dec 1982. (1665). p. 1-7. ill. Includes references. (NAL Call No.: 1 AG84TE).

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Ecological impact of parathion in soybeans (Insecticides, adverse effects, natural control, predatory arthropods).
Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Dec 1982. Dec 1982. (1665). 23 p. ill. Includes references. (NAL Call No.: 1 AG84TE).

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Effects of cultural practices on natural enemies (Beneficial arthropod dynamics in soybean, role of plant phenology, pest control implications).
Mayse, M.SCSBA. Pitre, H.N.; Whitcomb, W. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 49-55. Includes references. (NAL Call No.: 100 G29SO).

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Effects of micrometeorological conditions on survival and fecundity of the Mexican bean beetle (Epilachna varivestis) in soybean fields.
Sprenkel, R.K. Rabb, R.L. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1981. v. 10 (2). p. 219-221. 8 ref. (NAL Call No.: QL461.E532).

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Establishment of infestation and behavior of Heliothis zea on soybeans in the greenhouse.
Pitre, H.N. Hillhouse, T.L. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Jan 1981. v. 16 (1). p. 28-34. 17 ref. (NAL Call No.: QL461.G4).

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Natural mortality of lepidopteran eggs and larvae in Missouri soybeans (Trichoplusia ni, Glycine max).
Marston, N.L. Hostetter, D.L.; Pinnell, R.E.; Dickerson, W.A.; Smith, D.B. College Park : The Society. Annals of the Entomological Society of America. Jan 1984. v. 77 (1). p. 21-28. Includes references. (NAL Call No.: 420 EN82).

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Partial life tables of the green cloverworm (Lepidoptera: Noctuidae) in soybean and a hypothesis of population dynamics in Iowa (Plathypena scabra).
Pedigo, L.P.EVETB. Bechinski, E.J.; Higgins, R.A. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 186-195. Includes references. (NAL Call No.: QL461.E532).

1972

Quantitative assessment of the predators of Nezara viridula eggs and nymphs within a soybean agroecosystem using an ELISA (enzyme linked immunosorbent assay, Natural control).
Ragsdale, D.W. Larson, A.D.; Newsom, L.D. College Park, Md., Entomological Society of America. Environmental entomology. June 1981. v. 10 (3). p. 402-405. 10 ref. (NAL Call No.: QL461.E532).

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Seasonal distribution of Trichogramma (Hymenoptera:Trichogrammatidae) species associated with a Maryland soybean field (Heliothis virescens, biological control).
Thorpe, K.W. College Park, Md. : Entomological Society of America. Environmental entomology. Feb 1984. v. 13 (1). p. 127-132. Includes references. (NAL Call No.: QL461.E532).

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Effect of feeding by Lema trivittata (Coleoptera: Chrysomelidae) on the growth, reproduction and competitive ability of jimsonweed (Datura stramonium) in soybeans (Abstract only).
Peterson, B.L. Dively, G.P. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society.Northeastern Weed Science Society. p. 78.p. 78. (NAL Call No.: 79.9 N814).

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Document available from: Purdue University, Publication Mailing Room, 301 South Second Street, Lafayette, Indiana 47905 1979. Lists the common soybean insects. 1 sheet : ill. (NAL Call No.: Document available from source.).(NAL Call No.: E-85).

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Immature stages of Anacamptodes herse (Schaus) (Geometridae) on soybean in Honduras.
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Soybean insects : identification and management in Illinois / Marcos Kogan, Donald E. Kuhlman.
Kogan, Marcos. Kuhlman, Donald E. Urbana, Ill. Agricultural Experiment Station, College of Agriculture, University of Illinois at Urbana-Champaign 1982. "February, 1982". 58 p. : ill. (some col.) ; 28 cm. -. (NAL Call No.: 100 IL6S (1) no.773).

VETERINARY PHARMACOLOGY, TOXICOLOGY AND IMMUNE THERAPEUTIC AGENTS

1978

Enzyme immunoassay and fluoroimmunoassay for the herbicide diclofop-methyl (Residue analysis of pesticides, quantification in soil, urine, serum, wheat, soybeans, sugar beets).
Schwalbe, M. Dorn, E.; Beyermann, K.
Washington, D.C. : American Chemical Society.
Journal of agricultural and food chemistry.
July/Aug 1984. v. 32 (4). p. 734-741. ill.
Includes 17 references. (NAL Call No.: 381 J8223).

PESTS OF ANIMALS - GENERAL AND MISC.

1979

Browsing deer feed on early bean growth (Damage to soybeans).
Humphries, B. NC. Raleigh, The Station. Research and farming - North Carolina Agricultural Research Service.North Carolina. Agricultural Experiment Station. Winter/Spring 1979. v. 37 (3/4). p. 7. ill. (NAL Call No.: 100 N81R).

1980

Pesticide applicator certification.
(United States? s.n.) 1982. Pesticide Applicator Training Collection -Title from container -Beta format. 4 videocassettes (ca. 60 min. each) : sd., col. ; 1/2 in. (NAL Call No.: Videocassette no.5).

PEST OF ANIMALS - INSECTS

1981

Corn silk volatiles attract many pest species of moths (European corn borer, soybean looper, tarnished plant bug, Cisseps fulvicollis, and forage looper).
Cantelo, W.W. AR-BARC. Jacobson, M. New York, Marcel Dekker. Journal of environmental science and health. Part A: Environmental science and engineering. 1979. v. A14 (8). p. 695-707. ill. 19 ref. (NAL Call No.: TD172.J6).

1982

Effect of soybean trypsin inhibitor-loaded erthrocytes on fecundity and midgut protease and hemolysis of stable flies (Stomoxys calcitrans).
Deloach, J.R. Spates, G.E. College Park, Md., Entomological Society of America. Journal of economic entomology. Aug 1980. v. 73 (4). p. 590-594. 13 ref. (NAL Call No.: 421 J822).

1983

A six-year population survey of eye gnats (Hippelates pusio Loew, Diptera:Chloropidae) at a large soybean farm in northern Bay County, Florida.
Floore, T.G. Ruff, J.P. Ft. Myers, Fla. : The Association. Proceedings of the Florida Anti-Mosquito Association. 1982. v. 53 (1). p. 27-30. ill. Includes references. (NAL Call No.: 420 F663).

1984

Socio-economic factors relating to the IFA (Imported Fire Ant) and its management (Solenopsis, pests of livestock, fruits, vegetables, hay, soybeans, agricultural losses).
Headley, J.C. Aspelin, A.; Adams, C.T.; Brooks, T.; Brown, R.E. (Washington, D.C.?) : U.S. Dept. of Agriculture, APHIS, 1982. Proceedings of the Symposium on the Imported Fire Ant, June 7-10, 1982, Atlanta American Hotel, Atlanta, Georgia / editor S.L. Battenfield. p. 41-50.5. Includes references. (NAL Call No.: SB945.F535S9 1982).

PEST OF ANIMALS - HELMINTHS

1985

Soybean cyst nematode.
Johnson, H. G. MacDonald, D. H.& Plant pathology fact sheet. Document available from: University of Minnesota, Bulletin Room, 1420 Eckles Avenue, St. Paul, Minnesota 55108 1980. Includes field symptoms, verification, infestation, development and control for soybean cyst nematode. 1 sheet : ill. (NAL Call No.: Document available from source.).(NAL Call No.: FS No.35).

1986

Black nightshade (Solanum nigrum L.) (Poisonous to livestock, weed of soybeans, chemical control).
Fawatt, R.S. Jennings, V.M. Champaign, Ill.
Weeds today. Spring 1979. v. 10 (2). p. 21.
ill. (NAL Call No.: SB610.W4).

FARM EQUIPMENT

1987

Applicators tested for soybean herbicide control.
Lang, R. NE. Furrer, J.D. Lincoln, The Station. Farm, ranch and home quarterly.Nebraska. Agricultural Experiment Station. Winter 1980. v. 26 (4). p. 12-13. ill. (NAL Call No.: 100 N27N).

1988

New machine paves way for three trip crop (Herbicides, cotton, soybeans).
Garner, T.H. Memphis, Tenn., Meister. Cotton. International edition. 1981. 1981. p. 70, 72. ill. (NAL Call No.: 72.8 C8214I).

1989

Recirculating (herbicide) sprayers (Control of weeds in soybeans).
Gebhardt, M.R. Champaign, Ill. Weeds today. Spring 1979. v. 10 (2). p. 18-20. ill. (NAL Call No.: SB610.W4).

1990

Soybean emergence from field seedbed environments (Soil penetration resistance, different planter and drill press-wheel tires, fungicide seed treatment).
Hummel, J.W. Gray, L.E.; Nave, W.R. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. July/Aug 1981. v. 24 (4). p. 872-879. ill. 9 ref. (NAL Call No.: 290.9 AM32T).

1991

Soybean seed quality as affected by impact damage (Mechanical damage during harvesting and handling).
Paulsen, M.R. Nave, W.R.; Gray, L.E. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Nov/Dec 1981. v. 24 (6). p. 1577-1582, 1589. ill. 10 ref. (NAL Call No.: 290.9 AM32T).

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